

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.1.e Electrical Safety Training Requirements for Ring Entry

C-A-OPM Procedure in which this Attachment is used

4.1		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: Signature on File
Collider-Accelerator Department Chairman _____ Date _____

P. Ingrassia

4.1.e Electrical Safety Training Requirements or Ring Entry

RING CONDITIONS	TRAINING REQUIREMENT	ENTRANT'S REQUIREMENT
<ul style="list-style-type: none"> • EVERY item on C-A LOTO list is LOTO. • Entrants will only observe or advise. • Entrants will not work on apparatus physically attached to the accelerator, or connected to the vacuum chamber (except for the Rf Power Amplifier system). 	<ul style="list-style-type: none"> • Valid C-A Access Training on Permit C. 	<ul style="list-style-type: none"> • AA256A key + ID/RW1 card. • NO LOTO lock required.
<ul style="list-style-type: none"> • EVERY item on C-A LOTO list is LOTO. • Entrants will work on apparatus physically attached to the accelerator. 	<ul style="list-style-type: none"> • Valid Lockout/Tagout training on Permit B. • Valid Electrical Safety training on Permit B. • Valid C-A Access on Permit C. 	<ul style="list-style-type: none"> • LOTO lock on Token Box. • AA256A key +ID/RW1 card.
<ul style="list-style-type: none"> • Some apparatus from the AGS OPM C-A LOTO checklist remains energized. 	<ul style="list-style-type: none"> • Valid Lockout/Tagout training on Permit B. • Valid Electrical Safety training on Permit B. • Valid C-A Access training on Permit C. 	<ul style="list-style-type: none"> • LOTO lock on Token Box. • Energized Circuit Work Permit (OPM Att. 2.6.2.a) issued by OC. • AA256A key + ID/RW1 card.
<ul style="list-style-type: none"> • Only the Main Magnet Power Supply is LOTO. 	<ul style="list-style-type: none"> • Valid Lockout/Tagout training on Permit B. • Valid Electrical Safety training on Permit B. • Valid Working Hot training on Permit B. • Valid C-A Access training on Permit C. 	<ul style="list-style-type: none"> • LOTO lock on Token Box. • Energized Circuit Work Permit (OPM Att. 2.6.2.a) issued by OC. • AA256A key + ID/RW1 card.
<ul style="list-style-type: none"> • The ring main magnets are energized. 	<ul style="list-style-type: none"> • Valid Lockout/Tagout training on Permit B. • Valid Electrical Safety training on Permit B. • Valid Working Hot training on Permit B. • Valid C-A Access training on Permit C. • Tasks specified on Range D Working Hot Permit. 	<ul style="list-style-type: none"> • LOTO lock on Token Box. • Energized Circuit Work Permit (OPM Att. 2.6.2.a) issued by OC. • Task specific Range D Working Hot Permit. • AA256A key + ID/RW1 card.